

# Notice of Allowability

Application No.

10/721,466

Examiner

Kiet Doan

Applicant(s)

MATSUO ET AL.

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/23/07.
2. ☒ The allowed claim(s) is/are 1,4-12,15-17 and 20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### DETAILED ACTION

1. This office action is response to Remarks file on 05/23/2007.

Claims 1, 17 are amended.

Claims 2, 18 are cancelled.

### EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Surinder Sachar at (703) 413-3000 on 07/19/2007.

The examiner amendment as follow:

**Claims 3, 13, 14, 19** are cancelled.

**Claim 1.** A wireless control apparatus which performs a wireless communication with a plurality of wireless terminals, comprising:

an evaluation signal receiver which receives evaluation signals relating to received signals in the respective wireless terminals, which are transmitted from said plurality of wireless terminals,

a supplement signal generating unit configured to generate a supplement signal necessary to supplement deficient part of the received signals in said plurality of wireless terminals, using the evaluation signal; and

a supplement signal transmitter which transmits the supplement signal decided by said supplement signal generating unit, to said plurality of wireless terminals,

wherein the evaluation signals are signals that indicate at least one of a deficient part in the received information signal at said wireless terminals, propagation environment, and capability of wireless terminals;

wherein the supplement signal is a signal instructed to a wireless terminal capable of correctly receiving information signal, to receive the information signal instead of a wireless terminal not being able to correctly receive the information signal.

**Claim 10.** A wireless terminal configured to performs wireless communication with a wireless control apparatus which transmits a supplement signal necessary to supplement a received signal, comprising:

a transmitter which transmits an evaluation signal relating to the received signal to said wireless control apparatus;

a supplement signal receiver which receives the supplement signal; and  
a supplement information signal receiver which receives information signal based on the supplement signal;

wherein said evaluation signal is a signal indicative of at least one of deficient part of the received information signal, propagation environment and terminal capability;

wherein the supplement signal is a signal which indicates to receive information signal instead of an other wireless terminal which cannot correctly receive the

information signal when it is possible to correctly receive the information signal to be received.

**Claim 17.** A communication control method which communicates with a wireless control apparatus which performs wireless communication with said a plurality of wireless terminals, comprising:

receiving evaluation signals at an evaluation signal receiver of said wireless control apparatus, transmitted from the respective wireless terminals;

generating a supplement signal necessary to supplement deficient part of the received signals received at said plurality of wireless terminals, using the evaluation signal; and

transmitting said supplement signal to said plurality of wireless terminals,

wherein the evaluation signals are signals that indicate at least one of a deficient part in the received information signal at said wireless terminals, propagation environment, and capability of wireless terminals;

wherein the supplement signal is a signal instructed to a wireless terminal capable of correctly receiving information signal, to receive the information signal instead of a wireless terminal not being able to correctly receive the information signal.

***Allowable Subject Matter***

3. The following is an examiner's statement of reasons for allowance:

Accordingly, Applicant's claims are allowed for the reason recited in the remarks file on 05/11/2007 and further examiner amendment wherein reference of Schultz and

Gresham are fail to fairly teach or suggest claims limitation as specific detail including all limitation particularly recited in claims 1, 10 and 17.

Claims 4-9, 11-12, 15-16 and 20 are allowed as being dependent on the independent claims 1, 10 and 17.

### ***Conclusion***

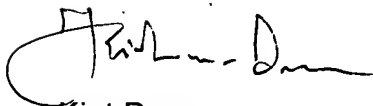
4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Kiet Doan  
Patent Examiner

  
JOSEPH FEILD  
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